

L 40132-56

ACC NR: AP6029384

alloys. A correlation is established between the quantities  $n\gamma\beta$  and mixing energies of the alloys; this is a major finding considering that the mixing energy determines the type of the constitution diagram of the alloy. Selection of the Au-Ag system as the object of investigation was primarily dictated by the lack of corresponding data on these alloys in the published literature. Moreover, alloys of this system lack such side-effects as static distortion, oxidizability, and ordering which, if present, complicate the radiographic experiment and interpretation of the findings.

Orig. art. has: 6 figures. [JPRS: 36,774]

SUB CODE: 20, 14, 11 / SUBM DATE: 23Mar65 / ORIG REF: 008 / OTH REF: 006

Card 2 in set 2

66237

SOV/126-8-3-22/33

18.7520, 18.1220  
AUTHORS: Kushta, G.P. and Rybaylo, O.I.

TITLE: A Few Rules According to Which Interatomic Bond Forces  
Change in  $\alpha$ -Solid Solutions of Systems Forming  
Intermetallic Compounds

PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 8, Nr 5,  
pp 457-459 (USSR)

ABSTRACT: In the present work changes of interatomic bond forces  
in  $\alpha$ -solid solutions of the systems Cu-Zn and Cu-Sn  
have been studied. The estimation of the change in  
interatomic bond forces of the alloys was carried out by  
X-ray determination of the characteristic temperature of  
the alloy according to a method worked out by  
G.V.Kurdyumov (Ref 1) which involves exposure at two  
temperatures - room temperature and liquid nitrogen  
temperature. In making Cu-Zn alloys, an alloy containing  
approximately 30% Cu and 70% Zn was first prepared.  
Electrolytic copper and granulated zinc free from  
antimony were used. By melting the alloy with the  
corresponding quantity of copper in hermetically enclosed  
graphite crystals, alloys of the following zinc content  
were made: 4.33, 8.74, 19.78, 29.24 and 38.62 at %.  
Card 1/4

66237

SOV/126-8-3-22/33

A Few Rules According to Which Interatomic Bond Forces Change in  
α-Solid Solutions of Systems Forming Intermetallic Compounds

The alloy for making Cu-Sn alloys contained approximately 60% Sn. Tin of the ChDA brand was used. The tin content in the Cu-Sn alloys obtained was 1.09, 2.19, 4.46, 6.95 and 9.31 at %. The composition of the alloys was thoroughly checked by chemical and spectral analysis and also by X-rays according to the solid solution lattice parameter. From the alloys thus obtained, powders were made by filing and a fraction was removed which gave continuous lines in the X-ray picture. In order to remove stresses arising during filing, the powders were annealed in evacuated glass ampoules at a temperature of 360°C for 4 hours. X-Ray photographs were taken of cylindrical specimens of 0.6 mm diameter made by applying the annealed powder to a thin glass hair wetted with cellulose nitrate varnish. K-Irradiation of iron was used. There was no oxidation of the specimen. Cooling of the specimen to liquid air temperature was brought about by continuously spraying it with a washing jet of liquid air in an open chamber by a method described by Iveronova (Ref 2). The X-ray exposures taken from the

Card 2/4

4

66237

SOV/126-8-3-22/33

A Few Rules According to Which Interatomic Bond Forces Change in  
 $\alpha$ -Solid Solutions of Systems Forming Intermetallic Compounds

same specimen at various temperatures were developed simultaneously. The X-ray pictures obtained were photometered in the microphotometer MF-2 and the ratio between the intensities  $I_{111}/I_{222}$  was determined. The values of  $I_{111}/I_{222}$  for each of the specimens, at two temperatures from which the characteristic temperature of the alloy was determined, represent the average result of several measurements from two or three X-ray pictures. These average results were used for calculation of the value of  $m_{cp}\theta^2$ , which is a measure of the interatomic bond of the alloy lattice. In the figure these values are represented in relation to the calculated value of the electron concentration for the studied alloys. As can be seen from the figure, the change (decrease) in interatomic bond forces as a function of the electron concentration for three solutions in the systems Cu-Zn and Cu-Sn is characterized by complex curves converging at a point corresponding to the limiting electron concentration of the  $\alpha$ -phase. Each of these curves can be approximated, however, to two straight lines crossing

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Card 3/4

66237

SOV/126-8-3-22/33

A Few Rules According to Which Interatomic Bond Forces Change in  
α-Solid Solutions of Systems Forming Intermetallic Compounds

at points which correspond to a practically identical value of interatomic bond forces and alloy atom content ( $\sim 5$  at %) for both systems. The decrease in interatomic bond force observed corresponds only qualitatively to the increase in repelling forces in the lattice but is not determined simply by these forces. From the actual shape of the curves for the alloys Cu-Zn and Cu-Sn it can be concluded that the influence of local stresses of the lattice potential, caused by the presence of ions of different valency and excluding energetic electron bands in the alloy, prevails over the influence of the electron concentration. The above influence limits the action of the well-known Hume-Rozier rule. There are 1 figure and 2 Soviet references.

n.b. This is a complete translation.

ASSOCIATION: Chernovitskiy gosudarstvennyy universitet  
(Chernovtsy State University)

SUBMITTED: March 31, 1959

Card 4/4

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KUSHTA, G.P.; HYBAYLO, O.I.

Submicrostructural characteristics of naturally aged aluminum-zinc solid solutions. Izv.vys.ucheb.zav.; tsvet.met. 3 no.2:153-155 '60. (MIRA 15:4)

1. Chernovitskiy gosudarstvennyy universitet, kafedra rentgeno-metallofiziki.  
(Aluminum-zinc alloys---Metallography) (Crystal lattices)

RYBCHENKO, G., mekhanik (g.Sverdlovsk)

Device for limiting the movement of the automatic crane  
arm. Okh. truda i sots. strakh. 5 no.5:35 My '62. (MIRA 15:5)  
(Cranes, derricks, etc.--Safety appliances)

RYBCHENKO, G.A. (Sverdlovsk)

Modernization of the series of joints of the hydraulic  
system of the E-153 excavator. Stroi. truboprov. 10 no.8:33-34  
Ag '65. (MIRA 18:11)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410004-7

RYBCHENKO, G.A., inzh.

Hydraulic drive of a crawler tread locking mechanism. Stroi. i dor.  
mash. 10 no.10:26-27 0 '65. (MIRA 18:10)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410004-7"

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410004-7

RYBCHENKO, G.A., inzh. (Sverdlovsk)

Increasing the life of elastic couplers. Energetik 14 no.1:  
23 Ja '66. (MIRA 19:1)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410004-7"

RYBCHENKO, G.A.

Device for rebounding the air jet of a brake-valve. Avt. prom.  
30 no. 6:29 Je '64. (MIRA 17:12)

1. Upravleniye mekhanizatsii No.1 Sverdlovskgorstroya.

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410004-7

RYFCHENKO, G.A., inzh.

Modernizing the air control system of the E-801 excavator. Mekh.  
stroj. 21 no.1:14-15 Ja '64. (MIRA 17:4)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410004-7"

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410004-7

OSADCHIY, F., inzh.; GOLOSOV, V.; NOVIKOV, K.; MITIN, V.; RYBCHENKO, G.;  
KUZNETSOV, V.; TERENT'YEV, M., inzh.; MATKUZHIN, Zh.

Exchange of experience. Avt. transp. 42 no.11:47-51 N '64.  
(MIRA 17:12)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410004-7"

RYBCHENKO, G.A., inzh.

Device preventing the tilting of crane jibs. Stroi. i dor. mash.  
9 no.12:19 D '64. (MIRA 18:3)

RYBCHENKO, G.A., mekhanik

Boom upswing limiter of the K-32 and LAZ-690 truck-mounted  
cranes. Mekh. stroi. 19 no.10:17 O '62. (MIRA 15:12)  
(Cranes, derricks, etc.—Equipment and supplies)

RYBCHENKO, M., inzh.

We storm the icy continent. Znan.ta pratsia no.7:16-19  
J1 '59. (MIRA 13:2)  
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RYBCHENKO, O.I.

Formation of plastids in the tissues of reproductive organs  
of some nightshades. Part 1: Chloroplasts in young ovaries.  
Ukr. bot. zhur. 20 no.2:40-46 '63. (MIRA 16:6)

1. Institut botaniki AN UkrSSR, otdel tsitologii i embriologii.  
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RYBCHENKO, O.I.

Cytoembryological investigation of the development of male  
gametophytes in the nightshade family. Ukr. bot. zhur. 20  
no.6:3..14 '63. (MIRA 17:2)

1. Institut botaniki AN UkrSSR, otdel tsitologii i embrio-  
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Characteristics of cytoembryological processes in potatoes (*Solanum tuberosum L.*) Ukr. bot. zhur. 21 no. 2:37-46 '64. (MIRA 17:5)

1. Institut botaniki AN UkrSSR, otdel tsitologii i embriologii.

RYBCHENKO, O.I.

Formation of plastids in the tissues of reproductive organs in  
some species of the nightshade family. Report No.2: Chromoplasts  
in maturing fruits. Ukr. bot. zhur. 20 no.3:33-42 '63.

(MIRA 17:9)

1. Otdel tsitologii i embriologii Instituta botaniki AN UkrSSR.

RYBCHENKO, O.I.

Cytoembryological investigation of the development of the female gametophyte in the nightshade family. Ukr. bot. zhur. 20 no. 5:33-43 '63. (MIRA 17:5)

1. Institut botaniki AN UkrSSR, otdel tsitologii i embriologii.

RYBCHENKO, Oleg Ivanovich MODILEVSKIY, Ya.S. [Modilevs'kyi, IA.S.],  
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[Cytoembryology of the nightshade family] TSytoembriologija rodyny pasl'onovykh. Kyiv, Naukova dumka, 1965.  
158 p. (MIRA 18:6)

1. Chlen-korrespondent AN Ukr.SSR (for Modilevskiy).

RYBCHENKO, O.I.

Simple electric heating devices for some operations in preparing permanent microscopic slides. Ukr. bot. zhur. 20 no.4:107-108 '63. (MIRA 17:4)

1. Institut botaniki AN UkrSSR, otdel tsitologii i embriologii.

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410004-7

RYBCHENKO, O. I., Cand Biol Sci -- (diss) "Cytoembryology of the development of non-pollinated tomatoes." Kiev, 1960. 15 pp; (Academy of Sciences Ukrainian SSR, Inst of Botany); 100 copies; price not given; (KL, 19-60, 132)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410004-7"

RYBCHENKO, O.I.

Cytoembryological study of the development of parthenocarpic fruit in tomatoes sprayed with growth stimulants. Ukr.bot. zhur. 16 no.3:20-31 '59. (MIRA 12:8)

1. Institut botaniki AN USSR, otdel tsitologii i embriologii. (Tomatoes) (Parthenocarpy) (Growth promoting substances)

RYBCHENKO, O.I.

Development of ovules in parthenocarpic forms of tomatoes.  
Ukr.bot.zhur. 16 no.1:44-56 '59. (MIRA 12:5)

1. Institut botaniki AN USSR, otdel tsitologii i embriologii  
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RYBCHENKO, P. F.

"Autoregulating Voltage in Shaft Electrical Circuits." Min Higher Education USSR, Kiev  
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SO: Knizhnaya Letopis', No. 32, 6 Aug 55

RYBCHENKO, P.F., kand.tekhn.nauk

Operating conditions of series-connected transformers with different  
turn ratios. Elektrichestvo no.2:55-61 P '61. (MIRA 14:3)

1. Kiyevskiy politekhnicheskiy institut.  
(Electric transformers)

RYBCHENKO, P.F., kand. tekhn. nauk; DANIL'CHUK, G.I., inzh.

Shielding and control of electric mine motors using magnetic  
amplifiers and high-frequency currents. Izv. vys. ucheb. zav.;  
gor. zhur. 6 no.10:74-81 '63. (MIRA 17:2)

1. Kiyevskiy politekhnicheskiy institut.

8(3)

SOV/112-59-4-6943

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 4, p 74 (USSR)

AUTHOR: Rybchenko, P. F.

TITLE: Efficient Methods for Voltage Regulation in Electric Networks at Mine Excavation Sections

PERIODICAL: V sb.: Gorn. elektrotehnika, M., Ugletekhizdat, 1957, pp 491-517

ABSTRACT: Fifteen schemes of local voltage regulation, 5 of them schemes with contactless regulating devices, are considered. A contactless regulating device consisting of 2 different-ratio transformers with a DC load-dependent magnetization is recommended for mine networks. Contactless regulation schemes are analyzed by a general method; principal regulating characteristics of the scheme with different-ratio transformers and operating conditions of the transformers in that scheme are investigated in detail. The following data is submitted: a curve of the overall ratio of the unit, equivalent schemes and diagrams of 2 series-connected transformers at no-load and under a load, EMF and voltage curves of the unit as functions of the load current.

Bibliography: 5 items.

I. V. Kh.

Card 1/1

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RYBCHENKO, Petr Filimonovich, kand.tekhn.nauk,dots.;  
POPOVICH, Nikolay Gavrilovich, kand.tekhn.nauk,dots.;  
POLYANSKIY, Nikolay Alekseyevich, inzh.; DANIL'CHUK,  
Grigorii Ivanovich, inzh.; VOLOTKOVSKIY, S.A., doktor  
tekhn. nauk, prof., retsenzent; MIROSHNIK, A.M., kand.  
tekhn. nauk, retsenzent; DENISENKO, S.A., inzh.,  
retsenzent

[Automation of industrial processes in coal mines] Avto-  
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[By] V.N.Vinoslavskii i dr. Kiev, Tekhnika, 1964. 406 p.  
(MIRA 18:3)

RYBCHENKO, V.A.

Unusual complication of diaphragmatic hernia. Khirurgiia 39  
no.9:126-127 S'63 (MIRA 17:3)

1. Iz Umanskoy gorodskoy bol'nič... (glavnyy vrach V.A. Rybchenko) Cherkasskoy oblasti.

RYBCHENKO, V.A.

A year of work under a new system. Sov.zdrav. 21 no.7:40-42 '62.  
(MIRA 15:8)

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(UMAN--HOSPITALS—ADMINISTRATION)

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Ya.D., kand. tekhn. nauk; GINZBURG, M.M.; GLEBOV, P.S.; GODES, E.G.;  
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Yu.D.; DOBROKHOTOV, D.D.; DUBININ, L.G.; DUNDUKOV, M.D.; ZHOLIK,  
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LIKHACHEV, V.P.; LOGUNOV, P.I.; MATSKIEWICH, K.F.; MEL'NICHENKO,  
K.I.; MENDELEVICH, I.R.; MIKHAYLOV, A.V., kand. tekhn. nauk;  
MUSILEVA, R.N.; NATANSON, A.V.; NIKITIN, M.V.; OTES, I.S.;  
OGUL'NIK, G.R.; OSIPOV, A.D.; OSMER, N.A.; PETROV, V.I.; PERYSHKIN,  
G.A., prof.; P'YANKOVA, Ye.V.; RAPOPORT, Ye.D.; REMZOV, N.P.;  
ROZANOV, M.P., kand. biol. nauk; ROCHEGOV, A.G.; RUBINCHIK, A.M.;  
*RYBCHENSKIY, V.S.*; SADCHIKOV, A.V.; SEMENTSOV, V.A.; SIDENKO, P.M.;  
SINYAVSKAYA, V.T.; SITAROVA, M.N.; SOSNOVIKOV, K.S.; STAVITSKIY,  
Ye.A.; STOLYAROV, B.P. [declassified]; SUDZILOVSKIY, A.O.; SYRTSOVA,  
Ye.D., kand. tekhn. nauk; FILIPPSKIY, V.P.; KHALTURIN, A.D.;  
TSISHEWSKIY, P.M.; CHERKASOV, M.J.; CHERNYSHOV, A.A.; CHUSOVITIN,  
N.A.; SHESTOPAL, A.O.; SHKHTER, P.A.; SHISHKO, G.A.; SHCHERBINA,  
I.N.; ENGEL', F.F.; YAKOBSON, A.G.; YAKUBOV, P.A., ARKHANGEL'SKIY,

(Continued on next card)

ANDON'YEV, V.L.... (continued) Card 2.

Ye.A., retsenzent, red.; AKHUTIN, A.N., retsenzent, red.; BALASHOV,  
Yu.S., retsenzent, red.; BARABANOV, V.A., retsenzent, red.; BATUNER,  
P.D., retsenzent, red.; BORODIN, P.V., kand. tekhn. nauk, retsenzent,  
red.; VALUTSKIY, I.I., kand. tekhn. nauk, retsenzent, red.;  
GRIGOR'YEV, V.M., kand. tekhn. nauk, retsenzent, red.; GUBIN, M.F.,  
retsenzent, red.; GUDAYEV, I.N., retsenzent, red.; YERMOLOV, A.I.,  
kand. tekhn. nauk, retsenzent, red.; KARAULOV, B.F., retsenzent,  
red.; KRITSKIY, S.N., doktor tekhn. nauk, retsenzent, red.; LIKIN,  
V.V., retsenzent, red.; LUKIN, V.V., retsenzent, red.; LUSKIN, Z.D.,  
retsenzent, red.; MATRIROSOV, A.Kh., retsenzent, red.; MENDELEYEV,  
D.M., retsenzent, red.; MENKEL', M.F., doktor tekhn. nauk, retsenzent,  
red.; OBRZEZKOV, S.S., retsenzent, red.; PETRASHEN', P.N., retsenzent,  
red.; POLYAKOV, I.M., retsenzent, red.; RUMYANTSEV, A.M., retsenzent,  
red.; RYABCHIKOV, Ye.I., retsenzent, red.; STASENKOV, N.G., retsen-  
zent, red.; TAKANAYEV, P.F., retsenzent, red.; TARANOVSKIY, S.V.,  
prof., doktor tekhn. nauk, retsenzent, red.; TIZDEL', R.E., retsen-  
zent, red.; FEDOROV, Ye.M., retsenzent, red.; SHEVYAKOV, M.N.,  
retsenzent, red.; SHMAKOV, M.I., retsenzent, red.; ZHUK, S.Ya.  
[deceased], akademik, glavnnyy red.; FIASSO, G.A., kand. tekhn. nauk,  
red.; FILIMONOV, N.A., red.; VOLKOV, L.N., red.; GRISHIN, M.M., red.;  
ZHURIN, V.D., prof., doktor tekhn. nauk, red.; KOSTROV, I.N., red.;  
LIKHACHEV, V.P., red.; MEDVEDEV, V.M., kand. tekhn. nauk, red.;  
MIKHAYLOV, A.V., kand. tekhn. nauk, red.; PETROV, G.D., red.; RAZIN,  
N.V., red.; SOBOLEV, V.P., red.; FERINGER, B.P., red.; FREYGOFER,

(Continued on next card)

ANDON'YEV, V.L.... (continued) Card 3.

Ye.F., red.; TSYPIAKOV, V.D. [deceased], red.; KORABLINOV, P.N..  
tekhn. red.; GENKIN, Ye.M., tekhn. red.; KACHEROVSKIY, N.V., tekhn.  
red.

[Volga-Don; technical account of the construction of the V.I. Lenin  
Volga-Don Navigation Canal, the TSimlyansk Hydroelectric Center,  
and irrigation systems] Volgo-Don; tekhnicheskii otchet o stroitel'-  
stve Volgo-Donskogo sudokhodnogo kanala imeni V.I. Lenina, TSim-  
lianskogo gidrouzla i orositel'nykh sooruzhenii, 1949-1952; v piati  
tomakh. Moskva, Gos. energ. izd-vo. Vol.1. [General structural  
descriptions] Obshchee opisanie sooruzhenii. Glav. red. S. IA. Zhuk.  
Red. toma M.M. Grishin. 1957. 319 p. Vol.2. [Organization of con-  
struction. Specialized operations in hydraulic engineering] Org-  
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(Continued on next card)

ANDON'YEV, V.L.... (continued) Card 4.

Glav. red. S.IA. Zhuk. Red. toma I.N. Kostrov. 1958. 319 p.

(MIRA 11:9)

1. Russiia (1923- . U.S.S.R.) Ministerstvo elektrostantsii, Byuro tekhnicheskogo otcheta o stroitel'stve Volgo-Dona. 2. Chlen-korrespondent Akademii nauk SSSR (for Akhutin). 3. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Grishin, Razin).

(Volga Don Canal--Hydraulic engineering)

SOV/99-58-12-4/7

AUTHORS: Glubshev, K.S., Rybchevskiy, V.S., Engineers

TITLE: Automatic Water Meters in the Rostov Irrigation System  
(Avtomaticheskiye vodoizmeritel'nyye ustroystva na Rostov-  
skikh orositel'nykh sistemakh)

PERIODICAL: Gidrotekhnika i melioratsiya, 1958, Nr 12, pp 28-33 (USSR)

ABSTRACT: The authors describe the water meter VDG-56 manufactured by the Rizhskiy zavod Gidrometpriborov (Riga Plant for Water Metering Devices). This water meter is an automatic differential manometer and works with a pressure difference combined with reducing devices in the form of cone-shaped nozzles having 13 different entrances with diameters ranging from 0.4 to 1.0 m. Selsyns are used for obtaining remote control. The water meter has a counting mechanism which indicates the absolute quantity of water consumption per second, water pressure and the magnitude of the total volumes of water. The water meter will measure a maximum water consumption from 0.242 to 1.510 cu m/sec. The water meter may be installed on water outlets of circular, square or rectangular cross-sections. The water meter provides for better control of irrigation waters, which is of importance when the water

Card 1/2

Automatic Water Meters in the Rostov Irrigation System SOV/99-58-12-4/7

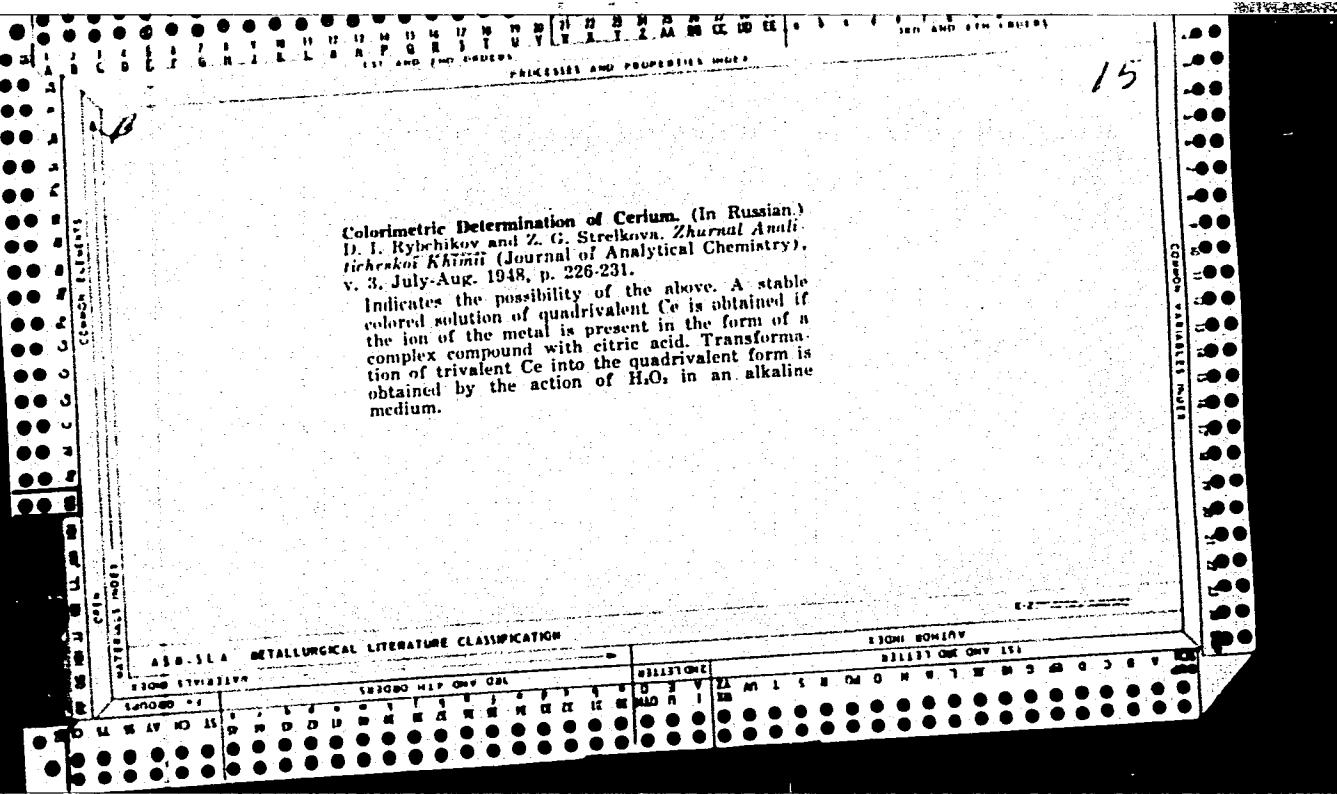
is pumped by pumping stations into the system. As a result of the application of water meters, considerable savings in irrigation waters have been effected since 1956. As the indications of water meters may be transmitted over certain distances, it is possible to save operational personnel by means of a central control system.

There are 5 sets of diagrams and 1 table.

Card 2/2

BELYANKIN, F.P., otv. red.; BEZUGLYY, V.D., red.; GROZIN, B.D., red.; DRAYGOR, D.A., red.; GURARIY, M.G., red.; LOGAK, N.S., red.; MITSKEVICH, Z.A., red.; PESIN, L.M., red.; RYBCHEVSKIY, Yu.S., red.; CHERNENKO, L.D., red.; YATSENKO, V.F., red.; KUDRYAVTSEV, G., red.; LUPANDIN, I., red.; SHAFETA, S., tekhn. red.

[Use of plastics in the manufacture of machinery and instruments]  
Plastmassy v mashinostroenii i priborostroenii. Kiev, Gos. izd-vo  
tekhn. lit-ry USSR, 1961. 573 p. {MIRA 14:12}  
(Plastics) (Machinery industry) (Instrument manufacture)



10m-81. Colorimetric Determination of Cerium. (In Russian.) D. I. Rybchikov and Z. G. Strekova. Zhurnal Analiticheskoi Khimii [Journal of Analytical Chemistry], v. 3, July-Aug. 1948, p. 226-231.

The possibility of the above. A stable colored solution of quadrivalent Ce is obtained if the ion of a complex compound with form of acid. Transformation of trivalent Ce into the quadrivalent of form is obtained by the action of  $\text{H}_2\text{O}_2$  in an alkaline medium.

ABE-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/20/2000

**CIA-RDP86-00513R001446410004-7"**

15.9450 220 1372 only

30408  
S/058/61/000/009/025/050  
A001/A101

AUTHORS: Zakharov, G.M., Rybchin, V.N.

TITLE: Method of measuring diffusion of macromolecules into polymers by means of tritium tracer

PERIODICAL: Referativnyy zhurnal. Fizika, no. 9, 1961, 176, abstract 9D83 ("Naucho-tekhn. inform. byul. Leningr. politekhn. in-t", 1960, no. 7, 3 - 7)

TEXT: The authors develop a method of measuring diffusion coefficient (D) of macromolecules into polymers, based on introduction of tagged atoms into molecules of the diffusing substance. Radioactive H was employed as a tracer. The method permits determinations of D of the order of  $10^{-11} \text{ cm}^2/\text{sec}$  per 1 hour and  $\sim 10^{-12} \text{ cm}^2/\text{sec}$  per  $\sim 10$  hours. The D-values were determined for diffusion of natural caoutchouc HK (NK) into some sorts of caoutchoucs [NK, CKB (SKB), vulcanized rubber of NK] at  $60^\circ\text{C}$ . Measurement error amounted to 15-20%. X

L. Layus

[Abstracter's note: Complete translation]

Card 1/1

S/081/61/000/013/027/028  
B117/B203

AUTHORS: Zakharov, G. M., Rybchin, V. N.

TITLE: Method of measuring the diffusion of macromolecules into polymers with the aid of tritium tagging

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 13, 1961, 708, abstract 13P71 (Nauchno-tekhn. inform. byul. Leningr. politekhn. in-t, no. 7, 1960, 3 - 7)

TEXT: The authors developed a method of determining the diffusion coefficient ( $D$ ) of ~~NK~~ (NK) macromolecules into NK, into the vulcanizate of NK, and into ~~CKB~~ (SKB) with the aid of tritium tagging. The method permits a determination of  $D \approx 10^{11} \text{ cm}^2/\text{sec}$  in about 1 hr, and of  $D = 10^{12} \text{ cm}^2/\text{sec}$  in about 10 hr. The absorption coefficient of  $\beta$ -particles in rubber was measured by the decrease in counting intensity of  $\beta$ -particles with increasing absorption thickness. In diffusion of NK into NK, SKB, and the vulcanizate of NK, the values of  $D$  at a temperature of  $60^\circ \pm 0.25^\circ\text{C}$  are  $(3.0 \pm 0.4) \cdot 10^{-12}$ ,  $(1.1 \pm 0.2) \cdot 10^{-12}$ ;  $(6 \pm 1) \cdot 10^{-13}$ , respectively.

Card 1/2

L 17759-63

EWP(Q)/EWI(M)/BDS ESD-3 RM/JD

8/0080/63/036/007/1410/1415

58

51

ACCESSION NR: AP3006177

AUTHORS: Kolikov, V. M.; Rybohin, V. N.

TITLE: The effect of fluorine-containing complexes on the extraction of zirconium  
with tributylphosphate

SOURCE: Zhurnal prikladnoy khimii, v. 36, no. 7, 1963, 1410-1415

TOPIC TAGS: Fluorine, zirconium, tributylphosphate, potassium fluoroziirconate

ABSTRACT: In studies on the effect of the conditions of preparation of nitrate solutions of zirconium on its extractability in tributylphosphate, it was found that improved extractability was associated with significant amounts of fluorine in solutions prepared from potassium fluoroziirconate. When zirconium was precipitated from an aqueous solution of potassium fluoroziirconate under the conditions detailed, the residue yielded a crystalline compound identified as  $ZrO(OH)F$ , and when this was dissolved in nitric acid, fluorine appeared in the working solution. The presence of fluorine ions in the solution altered its polymer and molecular zirconium make-up and led to partial substitution of  $NO_3^-$  groups by  $F^-$  ions, as shown by the decrease in optical density, reflecting reduction in the

1/2

Card

L 17759-63			
ACCESSION NR: AP3006177			
number of Zr-NO sub 3 bonds. Compounds formed in interaction with <u>fluorine</u> do not undergo hydrophilic conversion into the organic phase. Orig. art. has: 6 figures, 2 tables.			
ASSOCIATION: None			
SUBMITTED: 23Jan62	DATE ACQ: 25Sep63	ENCL: 00	
SUB CODE: CH	NO REF SOV: 002	OTHER: 000	
2/2			
Card			

OKHOTIN, M.V., doktor khim.nauk, prof.; RYBCHINSKAYA, A.V., petrograf

Optical crystallographic method of determining defects in glass.  
Stek.i ker. 19 no.11:7-10 N '62. (MIRA 15:12)

1. Nauchno-issledovatel'skiy institut stekla.  
(Crystal optics) (Glass-Defects)

RYBCHINSKAYA, A.V.

Whale marking in the antarctic. Priroda 42 no.9:100-103 S '53. (MLR 6:8)

1. Institut geografii Akademii nauk SSSR.  
(Antarctic Regions--Whales) (Whales--Antarctic Regions)

RYBCHINSKAYA, K.M. [Rybchyns'ka, K.M.], kand. med. nauk; KAGAN, M.R.  
[Kahan, M.R.]

Effect of combined mud therapy on the activity and properties  
of catalase in gynecological patients. Ped. akush. i gin. 24  
no.6: 50-52 '62. (MIRA 17:4)

1. Biokhimicheskaya laboratoriya Ukrainskogo instituta  
kurortologii i fizioterapii (direktor - dotsent F. Ye.  
Kurkudim [Kurkudym, F.I.E.]) i Lermontovskiy sanatori.

TISHCHENKO, I.T.; KORNYUSHENKO, N.P.; RYBINSKAYA, L.N.

Epidemiological and virological characteristics of influenza  
incidence in Kiev in January-March 1962. Vrach.delo no.3:105-  
107 Mr '63. (MIRA 16:4)

1. Kiyevskiy institut infektsionnykh bolezney i Kiyevskaya  
gorodskaya sanitarno-epidemilogicheskaya stantsiya.  
(KIEV—INFLUENZA)

RYBCHINSKAYA, L.P.

Development of the afferent apparatus in the umbilical of the supralingual and sublingual groups in people. Faculty PMG 108 106-113 f62 (MTRAL 72)

1. Iz kafedry normal'noy anatomi (zav. - kafedry prof. L.A. Shengina) Smolenskogo gosudarstvennogo meditsinskogo instituta.

USSR/Pharmacology and Toxicology. Hormonal Preparations

V-7

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 47235

Author : Belen'kiy M.S., Rybchinskaya Ye.M.

Inst : -

Title : A Combined Treatment of Patients with Infectious Non-Specific Polyarthritides by Health Resort-Balneotherapy and ACTH

Orig Pub : Terapovt. arkhiv, 1957, 29, No 6, 62-68

Abstract : No abstract

Card : 1/1

BELEN'KIY, M.S.; RYBCHINSKAYA, Ye.M. (Odessa)

Combined mud and butadione therapy in nonspecific infectious poly-  
arthritis. Vrach.delo no.1:7-9 '59. (MIRA 12:4)

1. Revmatologicheskaya klinika i biokhimicheskaya laboratoriya Ukrainskogo instituta kurortologii.  
(PYRAZOLIDINEDIONE) (BATHS, MOOR AND MUD)  
(ARTHRITIS, RHEUMATOID)

BELEN'KIY, M.S.; RYBCHINSKAYA, Ye.M.

Combined treatment using mud, medical gymnastics and liver diathermy  
of patients with chronic infectious nonspecific polyarteritis. Vop.  
kur., fizioter. i lech. fiz. kul't. 26 no.4:356-357 Jl-Ag '61.  
(MIRA 15:1)

1. Iz revmatologicheskoy kliniki (zav. M.S.Belen'kiy) i biokhimicheskoy  
laboratorii (zav. Ye.M.Rybchinskaya) Ukrainskogo instituta kurortologii  
v Odesse (dir. dotsent A.V.Sokolov).  
(ARTERIES...INFLAMMATION) (EXERCISE THERAPY)  
(DIATHERMY) (BATHS, MOOR AND MUD)

RYBCHINSKAYA YE. M.

BELEN'KIY, M.S.; RYBCHINSKAYA, Ye. M.

Health resort therapy, therapeutic baths and adrenocorticotropic hormone in the compound treatment of infectious nonspecific polyarthritis. Terap.arkh. 29 no.6:62-68 Je '57. (MIRA 10:10)

1. Iz revmatologicheskoy kliniki (zav. M.S.Belen'kiy) Ukrainskogo instituta kurortologii.

(ARTHRITIS, RHUMATOID, therapy,

ACTH with balneother. (Rus))

(BALNEOLOGY, in var. dis.

rheum. arthritis, with ACTH (Rus))

(ACTH, therapeutic use,

rheum. arthritis, with ablneother. (Rus))

BELEN'KIY, M.S.; RYBCHINSKAYA, Ye.M.; RUKHEL'MAN, R.O.

Dynamics of the restorative process in infectious nonspecific (rheumatoid) polyarthritis during compound health resort treatment according to data on the clinical aspects of the disease and some laboratory data (protein fractions in the blood serum and detailed erythrocyte sedimentation reaction). Zdravookhranenie 5 no.1:30-35 Ja-F '62. (MIRA 15:4)

1. Iz revmatologicheskoy kliniki i biokhimicheskoy laboratorii Ukrainskogo instituta kurortologii i fizioterapii (direktor dotsent F.Ye. Kurkudym).  
(ARTHRITIS, RHEUMATOID) (BLOOD PROTEINS)  
(ERYTHROCYTES)

RYBCHINSKAYA, Ye.M., kand.med.nauk; ERENKRANTS, D.I., dotsent (Odessa)

Effect of oxygen baths on the permanent fluctuations of the  
blood sugar level in the hypersthenic form of neurasthenia.  
Vrach. delo no.11:85-90 N '61. (MIRA 14:11)

1. Ukrainskiy institut kurortologii i fizioterapii.  
(NEURASTHENIA) (BLOOD SUGAR)  
(OXYGEN--THERAPEUTIC USE)

RYBCHINSKAYA, Ye.M., kand.med.nauk (Odessa)

Blood protein fractions in patients with infectious nonspecific polyarthritis under the influence of compound treatment. Vrach. (MIRA 14:6)  
delo no.4:42-44 Ap '61.

1. Biokhimicheskaya laboratoriya i revmatologicheskaya klinika  
Ukrainskogo instituta kurortologii.  
(BLOOD PROTEINS) (ARTHRITIS) (THERAPEUTICS, PHYSIOLOGICAL)

RYBCHINSKAYA, Ye.M.

Influence of mud applications on the level of total and inorganic phosphorus in the blood of rabbits. Vop. kur., fizioter. i lech. fiz. kul't. 25 no. 6:491-496 N-D '60. (MIRA 14:2)

1. Iz biokhimicheskoy laboratorii Ukrainskogo instituta kurortologii v Odesse (dir. - dots. A.V. Sokolov).  
(BATHS, MOOR AND MUD) (PHOSPHORUS IN THE BODY)

RYECHINSKAYA, Ye.M., kand.meditinskikh nauk (Odessa); SOROKINA, Z.N.,  
nauchnyy sotrudnik (Odessa)

Dynamic investigations of the unconditioned salivation reaction in  
hypertension patients following prescribed walking as part of the  
total complex of health resort treatment. Vrach. delo no.9:127-129  
S '60. (MIRA 13:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut kurortologii.  
(HYPERTENSION) (WALKING) (SALIVA)

Rybchinskiy, A. D.

137-58-5-8748

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 4 (USSR)

AUTHOR: Rybchinskiy, A. D.

TITLE: Pilot-plant Tests on Gold-bearing Ores Conducted in an Experimental Plant (Polupromyshlennoye ispytaniye zolotosoderzhashchey rudy na optytnoy fabrike)

PERIODICAL: Tr. N.-i. gornorazved. in-ta "Nigrizoloto," 1957, Nr 22,  
pp 153-156

ABSTRACT: Tests on a pilot-plant scale were performed in an experimental plant on new ores in accordance with a combined technological procedure adopted for the design of a large gold-mining plant to be erected in an area of new deposits. This procedure includes the flotation of ore, cyanidation of flotation tailings, and pyrometallurgical processing of flotation concentrates (laboratory experiments). Testing of hydrocyclones in an already operating plant considerably simplified classification and thickening operations in the course of processing of new ores.

A. Sh.

1. Gold ores--Processing    2. Industrial plants--Effectiveness

Card 1/1

137-58-4-6392

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 9 (USSR)

AUTHOR: Rybchinskiy, A. D.

TITLE: An Investigation of the Ores of the Baley Deposit (Northern Field) for the Purpose of Finding a Practicable System of Beneficiation [Issledovaniye rudy Baleyskogo mestorozhdeniya (Severnoye pole) s tsel'yu izyskaniya ratsional'noy skhemy obrabotki]

PERIODICAL: Tr. N.-i. gidrorazved. in-ta "Nigrozoloto" 1957, Nr 24,  
pp 123-125

ABSTRACT: Jigging experiments were conducted in a laboratory pulsator, also experiments in separating concentrates on a shaking table, in a nappy sluice, and in flotation. The best results were obtained by direct flotation of the ore, with grinding to -200 mesh and using the following flotation reagents (g/t): 100 soda ash, 130 butyl xanthate, and 65 cresyl frother. The flotation concentrate was successfully treated by cyanidation in solutions having 0.07-0.08 percent NaCN. The consumption of cyanide was about 1.5 kg/t. Up to 98 percent of the Au in the solution was extracted.

Card 1/1

A. Sh.

1. Ores--Processes 2. Flotation--Applications

137-58-4-6373

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 6 (USSR)

AUTHOR: Rybchinskiy, A. D.

TITLE: Technical Assistance to the Zhdanov Ore Dressing Plant of  
Glavredmet (Okazaniye tekhnicheskoy pomoshchi Zhdanovskoy  
obogatitel'noy fabrike Glavredmeta)

PERIODICAL: Tr. N.-i. gornorazved. in-ta. "Nigrizoloto," 1957, Nr 24,  
pp 141-143

ABSTRACT: The plant was given technical aid in testing and introducing  
hydrocyclones for classification and drying of the products  
of beneficiation.

A. Sh.

1. Ores--Processes    2. Hydrocyclones--Applications

Card 1/1

137-58-4-6371

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr. 4, p. 6 (USSR)

AUTHOR: Rybchinskiy, A. D.

TITLE: Employment of Hydrocyclones in the Beneficiation of Ores and Sands (Primeneniye gidretsiklonov pri obogashchenii rud i peskov)

PERIODICAL: Tr. N.-i. gornorazved. in-ta "Nigrizoloto," 1957, Nr. 24,  
pp 144-146

ABSTRACT: The object of this work was to determine the possibility (by employment of hydrocyclones) of separating slimes from the pulps of flotation tailings at the experimental Baley Plant, so as to eliminate the fine classes from the further treatment processes and to remove them when their Au content had reached the dumping level. It was found that in treating the Au-bearing ores of the Taseyev deposit in accordance with the schedule adopted in the design and construction of the large Taseyev Plant, it proved possible to separate fine slimes containing over 90 percent of the -6 microns class, in which the Au content was about 2 g/t, from the flotation tailings, by hydrocyclone. The possibility of employing a 150 mm hydrocyclone to clarify contaminated water

Card 1/2

137-58-4-6371

Employment of Hydrocyclones in the Beneficiation of Ores and Sands (cont.)

and thus to diminish the solids contents thereof by a factor of 2.5, was  
also established.

A. Sh.

1. Ores--Processes    2. Hydrocyclones--Applications

Card 2/2

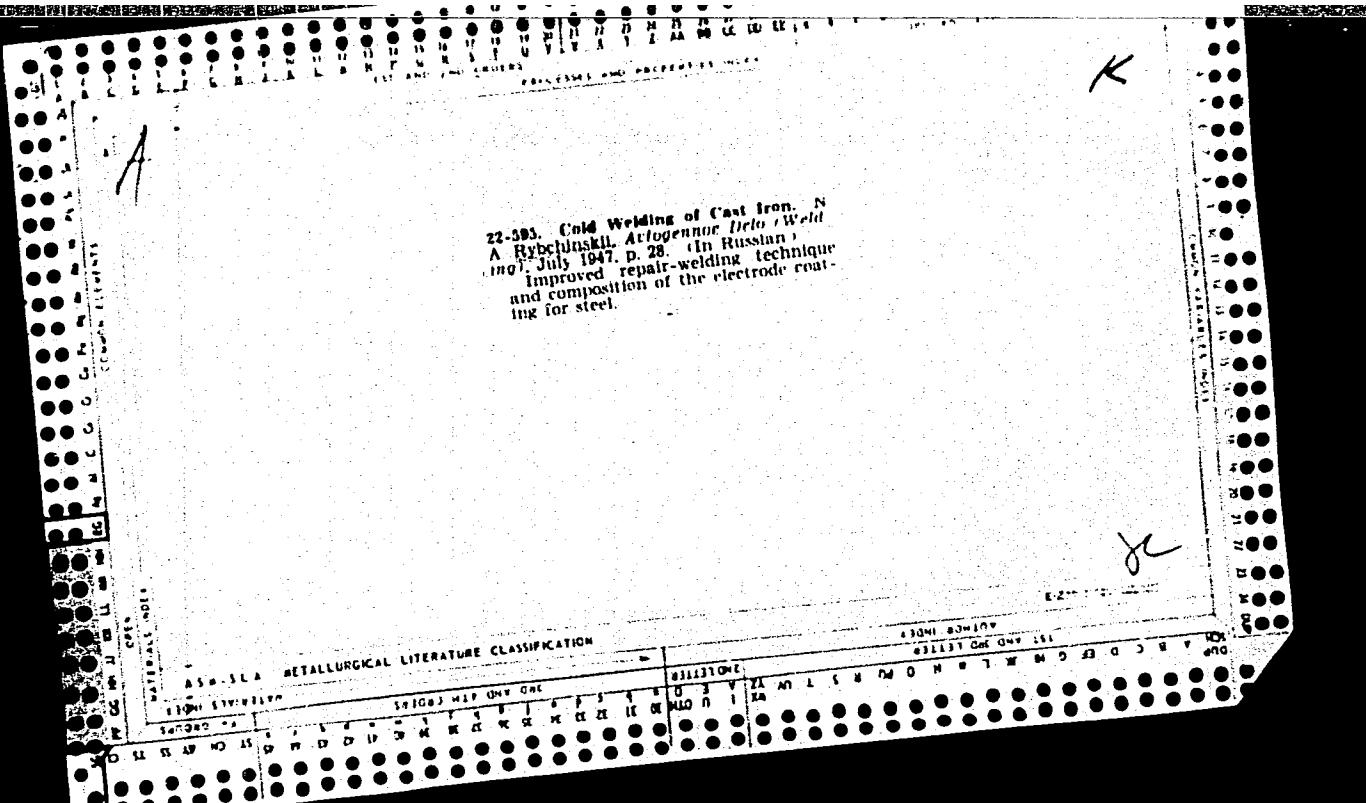
RYBCHINSKIY, B.L.

Factory-made products and materials for Kiev construction sites.  
Stroi. mat. 6 no.3:7-12 Mr '60. (MIRAL3:6)

1. Glavnnyy inzhener Upravleniya promyshlennosti stroitel'nykh  
materialov pri ispolkome Kiyevskogo gossoveta.  
(Kiev--Precast concrete construction)

RYBCHINSKIY, B.L.

Making ceramic panels by laying bricks in vertical frames. Stroi.  
mat.7 no.2:7-9 F '61. (MIRA 14:3)  
(Building, Bricks)



"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410004-7

RYBCHINSKIY, D.

"Courses for Radio Engineers," RADIO, No. 12, 1949.

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410004-7"

*RYBCHINSKIY*  
KRAVCHIK, V.; RYBCHINSKIY, E.

Eliminating superfluous levels of the Ukrainian administrative  
apparatus. Fin.SSSR 16 no.4:61-62 Ap '55. (MIRA 8:3)  
(Ukraine--Politics and government)(Ukraine--Industrial  
management) (Ukraine--Finance)

KUL'SKIY, L.A.; KOGANOVSKIY, A.M.; RYBCHINSKIY, M.I.

Counterflow adsorber with two suspended layers. Khim.prom.  
no.8:498-499 D '58. (MIRA 12:1)

1. Institut obshchey i neorganicheskoy khimii AN USSR.  
(Adsorption)

14(0)

AUTHORS: Kul'skiy, L. A., Koganovskiy, A. H., SOV/64-58-8-13/19  
Rybchinskiy, M. I.

TITLE: A Countercurrent Adsorber With a Two-Stage Suspended Layer  
(Protivotochnyy adsorber s dvukh"yarusnym vzveshennym sloyem)

PERIODICAL: Khimicheskaya promyshlennost', 1958, Nr 8,  
pp 498 - 499 (USSR)

ABSTRACT:  
The use of suspended adsorbents in the purification of industrial waste waters has a number of advantages, but also one drawback in comparison to fixed adsorption layers: the adsorption volume actually used is much smaller (Ref 1). As a result of previous investigations (Ref 2) an adsorber was designed (Fig.) in which the suspended adsorbent is contained in two vessels separated from one another. The water which is to be purified through them in succession while the adsorbent automatically flows (counter to the water) from one vessel into the other. The two vessels constitute an organic glass column of 2.2m height. The top vessel is larger than the bottom one. Water containing about 100 mg/l phenol was

Card 1/2

A Countercurrent Adsorber With a Two-Stage Suspended Layer SOV/64-58-8-13/19

conducted through the apparatus at a rate of 240 l/h, i.e. a linear speed of 6.6 mm per second. A table with comparative data proves that the use of a two-stage column results in a lower adsorbent (active coal) consumption than would be the case with a simple column. There are 1 figure, 1 table and 2 Soviet references.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN USSR (Institute of General and Inorganic Chemistry AS UkrSSR)

Card 2/2

L 18872-66 EWP(k)/EWT(m)/EWP(e)/EWP(t) JD  
ACC NR: AP5022548

SOURCE CODE: UR/0226/65/000/009/0095/0098

AUTHOR: Chegoryan, V. M.; Mikhalyuk, R. V.; Natanson, E. M.; Rybchinskiy, M. I.

ORG: Institute of General and Inorganic Chemistry, AN UkrSSR (Institut obshchey i neorganicheskoy khimii AN UkrSSR)

TITLE: Express method of determining dispersity of metal powders

17, 44, 5

SOURCE: Poroshkovaya metallurgiya, no. 9, 1965, 95-98

TOPIC TAGS: metal powder, chemical dispersion, dispersion hardening, sedimentation separation, metallurgic process

ABSTRACT: Results of an investigation of the dispersity of highly disperse metal powders by means of a photosedimentometer are presented. Comparison with results obtained by independent methods shows good agreement. A rational procedure of selection of the dispersion medium in dispersion analysis of certain metal powders is described. Orig. art. has: 3 figures and 2 tables. [Based on authors' abstract.]

[NT]

SUB CODE: . 11/ SUBM DATE: 15Feb65/ ORIG REF: 003/ OTH REF: 006/

Card 1/1 Jo

RYBCHINSKIY, M. I.

Purification of water by removal of dissolved impurities  
in clarifiers containing an alumino-coal layer in suspension.  
L. A. Kul'skiy, A. M. Koganovskiy, T. M. Rovinskaya, and  
M. I. Rybchinskii. *Ukrain. Khim. Zhur.* 22, 112-18  
(1958) (in Russian).—Tech. waste waters can be purified by  
removing dissolved impurities, such as phenol, in a series of  
clarifiers contg. a suspension of powd. activated coal stabil-  
ized by addn. of 10%  $\text{Al}_2\text{O}_3$  (cf. Kul'skiy, et al., *C.A.* 49,  
7783a).

Chem

RYBCHINSKIY, M. I.

✓ Removal from water of dissolved organic contaminants, in clarifiers with suspended alumina-charcoal layers. L. A. Kul'ski, A. M. Koganovskii, T. M. Rovinskaya and M. I. Rybchinskiy (*Ukr. Khim. Zh.*, 1958, 22, 112-117).—Water contaminated with phenol is passed upwards together with a charcoal suspension stabilized with 10% of  $\text{Al}(\text{OH})_3$ , through a suspended layer of the same adsorbent, which is removed for recycling at the same rate, and the water from above the adsorbent layer is passed similarly through further clarifiers, in series, until the concn. of phenol is reduced to

the desired level. The expenditure of charcoal is low enough to render the process feasible for purification of industrial effluent waters. It. Truscon

RYBCHINSKIY, M. I.

✓ Suitability of various reagents for fixing carbonic acid during the purification of highly discoloured waters. A. Kul'skiy, I. T. Goronovskiy and M. I. Rybchinskii (*Ukr. Khim. Zh.*, 1954, 20, 583-590). Owing to the stabilizing action of OH<sup>-</sup> ions on the org. impurities, the residual colorations, obtained when alkalis are added during the purification of water by addition of coagulants, increase in the order chalk < lime < Na<sub>2</sub>CO<sub>3</sub> < NaOH. Hence, chalk or marble is the most suitable alkaline agent for highly discoloured waters. Stronger alkalis, however, can be used if the flakes of metallic hydroxides, formed during the coagulation process and containing adsorbed org. matter, are first filtered off; NaOH or Na<sub>2</sub>CO<sub>3</sub> should be added after the filters, but Ca(OH)<sub>2</sub> should be added at the final settling stage or before the water is passed to the filters. F. W. KIRKBRIDE.

(2)

KUL'SKIY, L.A.; KOGANOVSKIY, A.M.; ROVINSKAYA, T.M.; RYBCHINSKIY, M.I.

Purification of water from molecular impurities in clarifiers with  
a suspended aluminecarbon layer. Ukr. khim. zhur. 22 no.1:112-117  
'56. (MIRA 9:6)

I.Institut obshchey i neorganicheskoy khimii AN USSR.  
(Water--Purification)

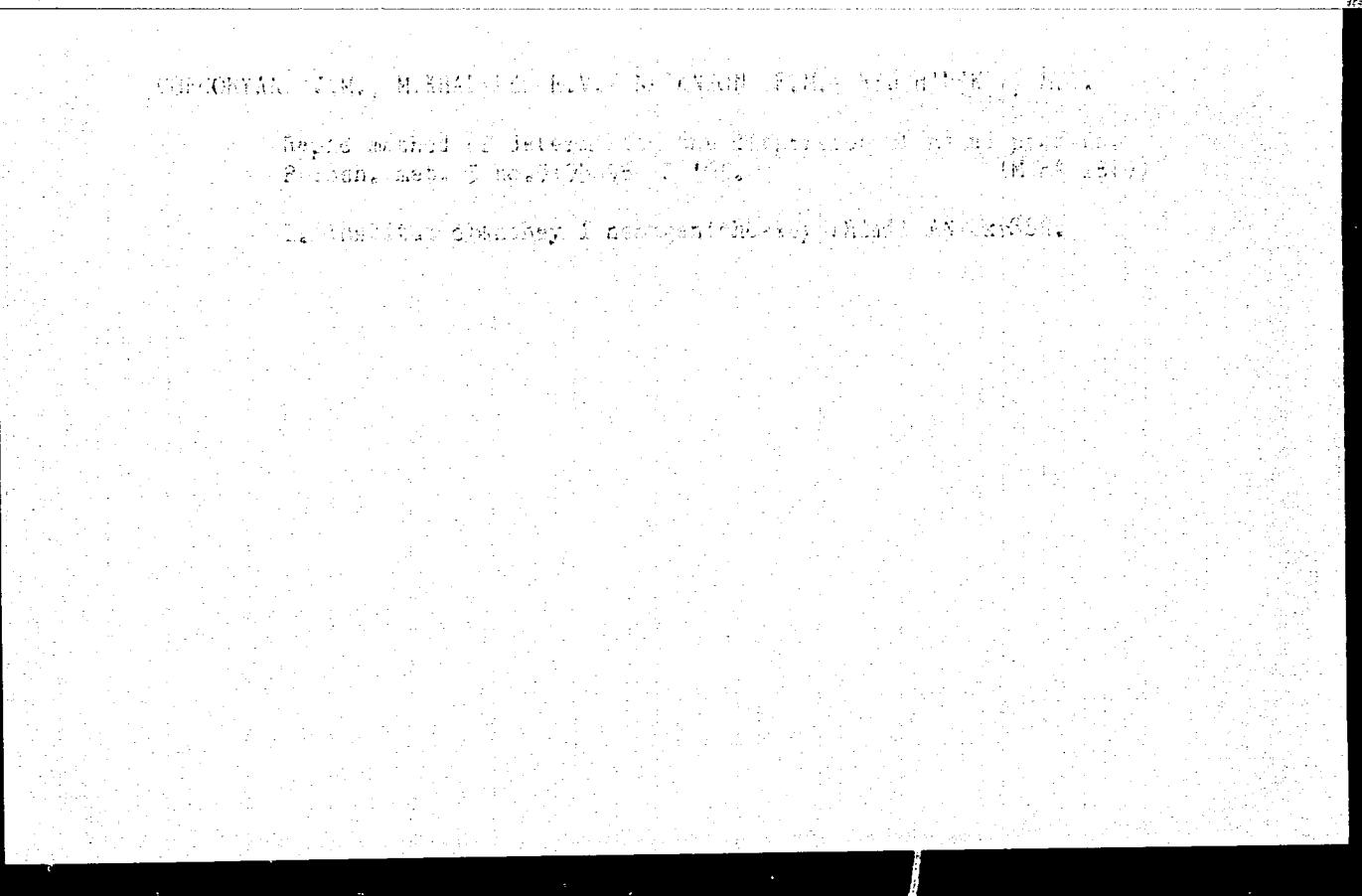
KUL'SKIY, L.A.; GORONOVSKIY, I.T.; RYBCHINSKIY, M.I.

Suitability of various reagents for the fixation of aggressive carbonic acid during purification of highly colored waters. Ukr.khim. zhur. 20 no.5:583-590 '54. (MLRA 8:1)

(Water--Purification) (Carbon dioxide)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410004-7



APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410004-7"

RYBCHINSKIY, N., inzh. (g. Dnepropetrovsk)

Using electric welding in repairing thin-walled sanitary engineering  
cast-iron work. Zhil.-kom.khoz. 9 no.1:21 '59. (MIRA 12:3)  
(Electric welding) (Pipe fittings)

RYBCHINSKIY, N.A., inzhener

Repair of synchronous electric generators by the method of cold electric  
welding. Svar. proisv. no.4:32 Ap '55. (MIRA 8:9)  
(Electric generators--Welding)

RYBCHINSKIY, N.A.

USSR /Engineering - Welding, Methods

Nov 51

"Welding up of Thin-Walled Cast-Iron Castings  
With Bimetallic Electrodes," N. A. Rybchinsky,  
Engr

"Avtogen Delo" No 11, pp 28,29

Expts conducted on salvaging castings by welding  
up of pits and cracks on their surface. Iron  
rods plated with copper up to 1 mm thickness were  
used as electrodes. Comparatively low melting  
temp of copper almost entirely eliminates chill-  
ing of cast iron, facilitating subsequent

200T67

USSR /Engineering - Welding, Methods

(Contd)

Nov 51

machining. Diffusion of copper into base metal  
promotes its fusion with welded metal, increas-  
ing strength of joint.

200T67

RYBCHINSKIY, N. A.

36826. Kholodnaya svarka chuguna bimetallicheskimi elektrodamami pri remote sudov.  
Pech. Transport, 1949, No. 6, c. 12-14

SO: Letopis' Zhurnal'ynkh Statey, Vol. 50, Moskva, 1949

RYBCHINSKIY, N. A.

PA 53/49T43

URSS/Engineering - Pipe Lines, Gas  
Nuclear Physics - Gamma Rays

Jul 49

"Use of Cold Welding With Bimetallic Electrodes  
for Repairing a Hydraulic Press," N. A. Rybchin-  
skiy, Engr., p

"Avtogen Delo" No 7

Gamma-ray control method was used during  
construction of Dashava-Kiev gas pipe line. There  
were two methods for using this process: (1) with  
radium ampoule inside the pipe, and (2) with ra-  
dium ampoule outside the pipe. Used primarily  
for checking quality of welded seams.

FDD

53/49T43

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ASM

(M.K. Repairing Thin-Walled Iron  
Castings Using Bimetallic Electrodes.  
In Russian.) N. A. Rytchinskii. Av  
torgennoe Delo, v. 22, Nov. 1951, p  
28-29.

Repair of cracks in soil pipe and  
similar articles. Micrographs and il  
lustrations. (KL, CD)

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CIA-RDP86-00513R001446410004-7"

MR

133-K. Repairing Thin-Walled Iron Castings Using Bimetallic Electrodes.  
(in Russian) N. A. Rybachinskii. At  
togramme Delo, V. 22, Nov. 1951, p  
28-29.

Repair of cracks in soft pipe and  
similar articles. Micrographs and ill  
ustrations. (KU, CD)

1. RYBCHINSKIY, N. A.
2. USSR (600)
4. Welding
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RYBCHINSKIY, N. A.

Engineer

"Use of cold welding with bimetallic electrodes  
for respiring a hydraulic press," Avtogen.

Delo, No. 7, 1949.

SLUTSKIY, V.A., inzh.; PAVLOVA, Ye.F., inzh.; KUCHERENKO, L.A., inzh.;  
RYBCHINSKIY, O.I., inzh.; VOLYAK, G.E., inzh.

Effect of the surface area on the linear dimensions of leather and  
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(MIRA 18:2)

*Rybchinskiy, O.I.*  
LIVINOV, M.R.; UHANSKIY, A.A.; RYBCHINSKIY, O.I.; DERBARENDIKER, M.I.

Using Nekal for chemical cleaning of unhaired hide faces for chrome  
tanning. Leg. prom. 18 no. 1:48-49 Ja '58. (MIRA 11:2)  
(Tanning)

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CIA-RDP86-00513R001446410004-7

RYBCHINSKIY, O.I.

UMANSKIY, A.A.; RYBCHINSKIY, O.I.; DERBAREMDIKER, M.L.

Production of white kidskin. Leg.prom. 17 no.4:50 Ap '57.  
(MLRA 10:4)  
(Hides and skins)

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Rybachinsky, R. Ye.

GRINGAUZ, K. I., BEZRUKIKH, V. V., BALANDINA, S. M., OZEROV, V. D., RYBACHINSKY, R. Ye.

"Direct Observations of Solar Plasma Streams at a Distance of -1,900,000 KM  
from the Earth on February 17, 1961, and Simultaneous Observations of the  
Geomagnetic Field"

Soviet Papers Presented at Plenary Meetings of Committee on Space research  
(COGPAR) and Third International Space Symposium, Washington, D. C.,  
23 Apr - 9 May 62

(8)

Советские поисковые эксперименты с самолетами  
турбинного двигателя

Krisztinovits, László: *Uman zeměpisná*, 1958

ResP. Ed.: A.M. Samarin. Сост.: А.М. Самарин. Контролер: А.М. Самарин. Печатано в типографии Академии наук СССР. Тираж 2,200 copies printed.

PURPOSE: This book is intended for metallurgists and metallurgical engineers; A. M. Sloboda, Corresponding Member, USSR Academy of Sciences; I. Ya. Pulin, Corresponding Member, USSR Academy of Sciences; E. N. Belyaeva, Corresponding Member, USSR Academy of Sciences; A. N. Sloboda, Corresponding Member, USSR Academy of Sciences; I. Ya. Pulin, Corresponding Member, USSR Academy of Sciences; A. L. Belyaeva.

OVERVIEW: This collection contains all the publications and manuscripts on metallurgical

**Part I.** This section of scientific papers is divided into six parts: 1) thermodynamic activity and kinetics of high-temperature processes; 2) constitution diagram of liquid metals and alloys; 3) physical properties of liquid metals and alloys; 4) new analytical methods and production of pure metals; 5) pyrometry and calorimetry; 6) specific coverage for some specific coverage. See Table of Contents, General Questions.

#### IV. NEW METHOD OF ANALYSIS AND PRODUCTION OF PURE METALS

441

Manzhitskov, M.I., and R.Ye. Rybnitskii. The MAG-3 Mass Spectrometer for Contaminants Analysis of Gaseous Mixtures. The MAG-3 mass spectrometer is in effect an ionization manometer capable of measuring the partial pressure of the components of a gaseous mixture with a sensitivity of the order of 10<sup>-6</sup> micron torr.

## Grigor'ev, A.M. Methods and Apparatus for Measurement of Low Pressures

Pedotov, V.P. Determination of Nitrogen in Metals and Alloys 454  
Krasnulin, G.V., and A.I. Kholodov. Instrument for Rapid Determination of Hydrogen Content in Hard Steel 454

461

Borisov, A.YA. An Instrument for Determining the Hydrogen Content in Steel by Hot Extraction in Vacuum  
The design of the instrument permits elimination of the open surface of mercury and a decrease in the actual quantity of mercury, thus lessening the danger of mercury poisoning. The temperature of the specimen can be measured with a thermocouple permitting more uniform determinations. The design of the instrument makes it possible to increase the weight of the specimen up to 35 kg., thereby increasing the accuracy of the determination. A special outlet makes possible the analysis of the extracted gas. A single determination can be completed in 30 minutes.